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September 18, 2006
(PBW Project No. 1352)

VIA OVERNIGHT DELIVERY

Mr. M. Gary Miller, Remedial Project Manager
U.S. Environmental Protection Agency, Region 6
Superfund Division (6SF-AP)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

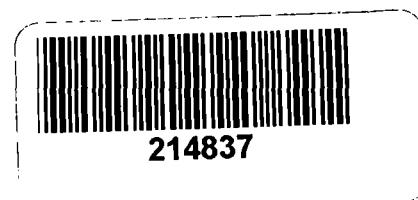
Re: Intracoastal Waterway Sediment and Surface Water Data, Gulfco Marine Maintenance Site, Freeport, Texas

Dear Mr. Miller:

Per our telephone conversation earlier this month, please find enclosed various data related to sediment and surface water samples collected from the Intracoastal Waterway (ICWW) as part of the Remedial Investigation/Feasibility Study (RI/FS) at the subject site (the Site). This information is provided by Pastor, Behling & Wheeler, LLC (PBW) on behalf of LDL Coastal Limited LP (LDL), Chromalloy American Corporation (Chromalloy) and The Dow Chemical Company (Dow). In accordance with Paragraph 52 of the modified Unilateral Administrative Order for the Site, I certify that I have been fully authorized by the Respondents to submit these documents and to legally bind all Respondents thereto.

The following documents are transmitted herewith for your review:

- Table 1 – Intracoastal Waterway Sediment Concentrations Exceeding Preliminary Screening Values (PSVs)
- Table 2 – Intracoastal Waterway Surface Water Concentrations Exceeding Preliminary Screening Values (PSVs)
- Table 3 – Intracoastal Waterway Sediment Data – All Detected Compounds in Site Samples
- Table 4 – Maximum Intracoastal Waterway Sediment Concentrations and Fish Ingestion Screening Levels
- Figure 1 – Background ICWW Sediment Sample Preliminary Screening Value Exceedences
- Figure 2 – Site ICWW Sediment Sample Preliminary Screening Value Exceedences
- Figure 3 – Proposed Additional ICWW Sediment Sample Locations
- Figure 4 – Site ICWW Surface Water Sample Preliminary Screening Value Exceedences
- Figure 5 – Background ICWW Surface Water Sample Preliminary Screening Value Exceedences



In addition, electronic files of the laboratory reports for ICWW surface water and sediment analyses are included on the enclosed DVD. These files were previously transmitted to you with the August 2006 monthly status report submitted on September 15, 2006.

As discussed in our telephone conversation, we would like the opportunity to meet with you to review the enclosed data and its implications. We have found such meetings to be an extremely effective way of proceeding through the RI process at other NPL sites, such as the Alcoa (Point Comfort)/Lavaca Bay site, and believe that such meetings will accelerate completion of the RI/FS at the Gulfco site.

To provide an initial platform for such a meeting regarding the ICWW sediment and surface water data, we have performed a preliminary evaluation of these data and identified proposed contingent investigation activities. Our interpretations and proposed activities are outlined below.

Nature and Extent Evaluation for Intracoastal Waterway Sediment

Section 5.6.7 of the RI/FS Work Plan outlines procedures for evaluating the lateral extent of chemicals of interest (COIs) in Site sediment samples. Specifically, "...the sediment sample analytical results will be compared to the applicable PSVs in Table 21 to evaluate the lateral extent of COIs" with the provision that "Should any sediment sample location at the perimeter of the sampled area (except for the background area) exceed a PSV, then a minimum of two additional sediment samples will be collected within 200 feet of the location exceeding the PSV."

As shown on Table 1, Figure 1, and Figure 2, PSV exceedences were noted at three background sediment sample locations and five Site sediment sample locations. Approximately two-thirds of the Site exceedences were "J"-flagged indicating an estimated concentration, typically between the method detection limit (MDL) and the sample quantitation limit (SQL). Most exceedences were only slightly above the PSVs with no COI concentration greater than four times its PSV. All five Site exceedence locations were within the barge slip areas with only two locations (IWSE01and IWSE05) located on the perimeter of the sampled area. Based on these data and the RI/FS Work Plan procedures described above, three additional sediment sample locations are proposed as shown on Figure 3; location IWSE34 is proposed for 4-4'-DDT analysis, location IWSE36 is proposed for fluorene analysis and location IWSE35 is proposed for analysis for both of these COIs. Based on observations during the initial sediment sampling effort, it is possible that minimal or no sediment may be present at locations IWSE35 and IWSE36 due to ICWW dredging activities and/or channel erosion processes. If sampling attempts at these locations indicate sediment thicknesses less than two inches (a minimum practical sample thickness), these samples will not be collected since the lateral extent of sediment, and thus the lateral extent of COIs in sediment in that direction will have been defined.

Nature and Extent Evaluation for Intracoastal Waterway Surface Water

Section 5.6.6 of the RI/FS Work Plan outlines procedures for evaluating the lateral extent of COIs in surface water, again through a PSV comparison with the provision that "Should the concentration of any COI attributable to Site operations in a perimeter wetland or Intracoastal Waterway sample exceed a PSV, then a minimum of two additional surface water samples will be collected within 200 feet of the location exceeding the PSV."

As shown on Table 2, Figure 4, and Figure 5, PSV exceedences were noted at all four background surface water locations and three of the four Site surface water locations. The background

exceedences were all "J"-flagged concentrations of aldrin, 4,4'-DDD, or 4,4'-DDT. The three Site exceedences were "J"-flagged total copper concentrations at locations (IWSW-18, IWSW19, and IWSW-20); the dissolved copper concentrations in all of these samples were non-detect. The possible need for additional surface water samples in this area is predicated on the attribution of any PSV exceedences to Site operations. Given the effects of regular tidal fluctuations on flow in the ICWW, possible transient sources of copper from ship traffic in the ICWW, the contaminant transport effects of barge traffic in the ICWW, and the below background copper concentrations in Site sediment samples from this vicinity, these surface water PSV exceedences cannot presently be attributed to Site operations. It is proposed that copper concentrations in Site groundwater and soil samples in the vicinity of the surface water exceedences be reviewed prior to determining whether the collection of additional surface water samples for total copper analyses is warranted.

Fish Tissue Investigation

Section 5.6.8 of the RI/FS Work Plan describes procedures for conducting a fish tissue investigation. That description includes the following methodology for determining which compounds should be measured in fish: "Specifically, fish and crab samples will be analyzed for those compounds detected in Site sediment samples above the sample quantitation limit (SQL) (i.e., J-flagged data reported below the SQL will not be considered except for bioaccumulative compounds), provided the SQL is below the sediment PSV. If the SQL is above the PSV, the need to include that compound in the fish and crab sampling program will be evaluated on a chemical-specific basis using other site data and background information." The list of bioaccumulative compounds is provided in TCEQ Eco Risk guidance, Table 3-1 (TCEQ, 2001)(See Attachment A for a list of references).

At the time the RI/FS Work Plan methodology was developed, the available sediment data set was inadequate to determine if compounds present in Site sediment would potentially impact fish (and fish consumers), and no fish tissue data were present for the Site or nearby in the Intracoastal Waterway. Based on the sediment data obtained (summarized in Table 4), we felt it appropriate to revisit this methodology in consideration of TCEQ guidance (TCEQ, 2002) for developing sediment screening values protective of the fish and crab ingestion pathway. The TCEQ guidance was used with EPA approval to evaluate this pathway at the State Marine Superfund Site (Weston Solutions, Inc., 2003). Like the Gulfco site, the State Marine site is also located on the Intracoastal Waterway. The procedures provided in TCEQ 2002 and used at State Marine are similar to the approach that EPA and TCEQ use to protect the fish ingestion pathway when developing ambient water quality standards. These ambient water quality standards were used as PSVs in the Gulfco RI/FS Work Plan (Table 20 of the Work Plan) to evaluate surface water exposure pathways, including fish ingestion. Based on the comparison of conservative sediment screening values developed using this approach to Gulfco Site data, sediment concentrations near the Site are below levels that would adversely affect fish and crab consumers, and as such, a fish and crab tissue sampling program to evaluate the human fish and crab ingestion pathway is unnecessary. The specific procedures used for development of the fish ingestion screening values are detailed below.

Table 4 lists those compounds that were either: (1) detected above the SQL in at least one Site sediment sample; (2) detected in at least one Site sediment sample at an estimated (i.e., "J"-flagged) concentration below the SQL and above the PSV; or (3) detected in at least one Site sediment sample at an estimated (i.e., "J"-flagged) concentration below the SQL and identified as a bioaccumulative compound. Although, as detailed in Table 3, iron falls within the first of these

scenarios, it was not included in Table 4 based on its identification in Section 5.6.8 of the RI/FS Work Plan as an essential nutrient to be excluded from any fish tissue sampling program. For each of the compounds listed, Table 4 provides a summary of maximum Site sediment sample concentrations, maximum background sediment sample concentrations, and proposed screening levels in sediment protective of the fish ingestion pathway. It is interesting to note that nearly two-thirds of the metals listed in Table 4 showed a higher maximum concentration in the background sediment sample dataset than in the Site sediment sample dataset.

To develop the fishSED PCLs, we used the TCEQ's guidance document RG-366/TRRP-24, "Determining PCLs for Surface Water and Sediment" (TCEQ, 2002), which is based on EPA guidance (EPA, 1989 and 1991) developed for EPA's Water Program (No EPA Superfund guidance has been developed to estimate sediment concentrations that are protective of the fish ingestion pathway). Section 5.2.2.1 of RG-366/TRRP-24 provides an approach for estimating a risk-based exposure limit (RBEL) for fish and the conservative assumptions to be included in the approach. Section 5.2.2.2 of RG-366/TRRP-24 discusses how one calculates the sediment PCL that is protective of the fish RBEL and generally indicates that one must consider the fate and transport processes of the chemical. It also indicates that one should refer to scientific literature to serve as the resource for evaluating the transfer of chemicals from sediment to fish.

Based on RG-366 guidelines, we used the fate and transport model provided in the EPA's "Human Health Risk Assessment Protocol (HHRAP) for Hazardous Waste Combustion Facilities" (EPA, 2005) to estimate a sediment concentration that is protective of the fish RBEL. The accompanying EPA HHRAP database provides default assumptions and chemical properties data for the cross media transfer calculation. EPA's default chemical properties data were used for all chemicals, when available. Biota sediment accumulation factors (BSAFs) for copper, mercury, nickel, and zinc were unavailable in the HHRAP guidance document so measured maximum values obtained from the Calcasieu Estuary Remedial Investigation Report (CDM, 2002) were used. It should be noted that these maximum BSAFs result in more conservative screening levels when compared to screening levels that were calculated using average BSAFs. These values are reasonable surrogates given the proximity of the Calcasieu Estuary to the Site, as well as the general industrial nature of the two areas. The screening value calculations and input parameters are provided in Attachment B.

The non-bioaccumulative metals listed in Table 4 generally do not partition into organic carbon and thus organic carbon partition coefficient (Koc) values for these compounds are not available. As a result, a fishSED PCL could not be calculated for these compounds using the approach in RG-366. Recognizing that the non-bioaccumulative metals would be expected to biodilute in aquatic food webs (and thus the fish tissue concentration of a compound would be considerably less than its associated sediment concentration), and given the lack of available default biota transfer factors, we have not derived a fishSED PCL for these metals.

Based on the Site data and the calculations, none of the measured concentrations at the Site exceed their corresponding fishSED PCL, which indicates that an adverse health effect is unlikely to result from the fish ingestion pathway. For most compounds, maximum sediment concentrations were multiple orders of magnitude below their respective fish ingestion screening values with only four compounds (benzo(a)pyrene, benzo(a)anthracene, dibenzo(a,h)anthracene, and hexachlorobenzene) even within a factor of ten of the screening value. Crab ingestion rates are about four times lower than fish ingestion rates and, therefore, sediment concentrations developed to protect the fish pathway are conservative when used to evaluate the crab ingestion

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pathway. As such, the sediment concentrations measured at the Site are not likely to cause an adverse health risk to crab consumers, either.

Considering the above comparison of Site sediment data to screening criteria for the fish ingestion pathway developed on the basis of applicable guidance used for this specific purpose at other sites, we propose that a fish tissue sampling program to evaluate Site risks is no longer appropriate and should not be performed. We recognize that this proposal represents a change from the RI/FS Work Plan, but note that this change is: (1) consistent with the RI/FS process and the key TRIAD approach element of dynamic work strategies (EPA, 2003), in particular, which encourage work plan modifications as data are obtained; and (2) still provides appropriate data for evaluation of potential Site risks associated with the fish ingestion pathway as identified in the conceptual Site model outlined in the RI/FS work plan.

Thank you for the opportunity to submit these documents. We look forward to the opportunity to discuss these data in more detail with you in a meeting so that we can continue to move forward with the expeditious completion of the RI/FS at the Gulfco site. I will contact you later this week to discuss any questions you may have and review possible meeting dates. Thank you again for your assistance on this project.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC



Eric F. Pastor, P.E.
Principal Engineer

cc: Ms. Luda Voskov - Texas Commission on Environmental Quality
Mr. Larry Champagne - Texas Commission on Environmental Quality
Mr. Brent Murray - Sequa Corporation
Mr. Rob Rouse - The Dow Chemical Company
Mr. Donnie Belote - The Dow Chemical Company
Mr. Allen Daniels - LDL Coastal Limited, LP
Mr. F. William Mahley - Strasburger & Price, LLP
Mr. James C. Morris III - Thompson & Knight, LLP
Ms. Elizabeth Webb - Thompson & Knight, LLP

TABLES

Table 1 - Intracoastal Waterway Sediment Concentrations Exceeding Preliminary Screening Values (PSVs)

Sample ID	Sample Type	Collection Date	Matrix	Parameter	Result	Valid Qualifier	Unit	SQL	MDL	PSV - Sediment	Unit
IWSE-01-001-(0-0.5)	SITE	6/26/2006	SE	4,4'-DDT	0.00332	J	mg/kg	0.00306	0.00025	1.19E-03	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Acenaphthene	0.0631	J	mg/kg	0.097	0.00861	1.60E-02	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Benzo(a)anthracene	0.395	none	mg/kg	0.097	0.0088	2.61E-01	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Benzo(a)pyrene	0.445	none	mg/kg	0.097	0.00874	4.30E-01	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Chrysene	0.475	J	mg/kg	0.485	0.00772	3.84E-01	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Dibenz(a,h)anthracene	0.151	none	mg/kg	0.097	0.00835	6.34E-02	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Fluoranthene	0.804	J-	mg/kg	0.485	0.00972	6.00E-01	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Fluorene	0.046	J	mg/kg	0.097	0.00849	1.90E-02	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Phenanthrene	0.508	none	mg/kg	0.097	0.0107	2.40E-01	mg/kg
IWSE-03-003-(0-0.5)	SITE	6/26/2006	SE	Pyrene	0.862	none	mg/kg	0.485	0.0104	6.65E-01	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Acenaphthene	0.0722	J	mg/kg	0.0989	0.00861	1.60E-02	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Anthracene	0.107	none	mg/kg	0.0989	0.00945	8.53E-02	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Benzo(a)anthracene	0.541	none	mg/kg	0.0989	0.0088	2.61E-01	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Benzo(a)pyrene	0.634	none	mg/kg	0.0989	0.00874	4.30E-01	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Chrysene	0.653	none	mg/kg	0.494	0.00772	3.84E-01	mg/kg

<i>Sample ID</i>	<i>Sample Type</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV-Sediment</i>	<i>Unit</i>
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Dibenz(a,h)anthracene	0.181	none	mg/kg	0.0989	0.00835	6.34E-02	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Fluoranthene	0.908	J-	mg/kg	0.494	0.00972	6.00E-01	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Fluorene	0.0677	J	mg/kg	0.0989	0.00849	1.90E-02	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Phenanthrene	0.691	none	mg/kg	0.0989	0.0107	2.40E-01	mg/kg
IWSE-03-034-(0-0.5)	SITE	6/26/2006	SE	Pyrene	1.01	none	mg/kg	0.494	0.0104	6.65E-01	mg/kg
IWSE-04-004(0-0.5)	SITE	6/26/2006	SE	Dibenz(a,h)anthracene	0.0694	J	mg/kg	0.135	0.00835	6.34E-02	mg/kg
IWSE-05-005(0-0.5)	SITE	6/26/2006	SE	Fluorene	0.0241	J	mg/kg	0.0953	0.00849	1.90E-02	mg/kg
IWSE-07-007(0-0.5)	SITE	6/26/2006	SE	Acenaphthene	0.0239	J	mg/kg	0.113	0.00861	1.60E-02	mg/kg
IWSE-07-007(0-0.5)	SITE	6/26/2006	SE	Dibenz(a,h)anthracene	0.235	none	mg/kg	0.113	0.00835	6.34E-02	mg/kg
IWSE-07-007(0-0.5)	SITE	6/26/2006	SE	Fluorene	0.0277	J	mg/kg	0.113	0.00849	1.90E-02	mg/kg
IWSE21-021-(0-0.5)	BACKGROUND	6/27/2006	SE	Arsenic	9.59	none	mg/kg	2.89	0.16	8.20E+00	mg/kg
IWSE21-021-(0-0.5)	BACKGROUND	6/27/2006	SE	Nickel	21.8	none	mg/kg	2.89	0.059	2.09E+01	mg/kg
IWSE27-027-(0-0.5)	BACKGROUND	6/27/2006	SE	Arsenic	9.58	none	mg/kg	2.93	0.16	8.20E+00	mg/kg
IWSE27-027-(0-0.5)	BACKGROUND	6/27/2006	SE	Nickel	27.3	none	mg/kg	2.93	0.059	2.09E+01	mg/kg
IWSE28-028-(0-0.5)	BACKGROUND	6/27/2006	SE	Arsenic	9.62	none	mg/kg	2.9	0.16	8.20E+00	mg/kg
IWSE28-028-(0-0.5)	BACKGROUND	6/27/2006	SE	Nickel	24.8	none	mg/kg	2.9	0.059	2.09E+01	mg/kg

Table 2 - Intracoastal Waterway Surface Water Concentrations Exceeding Preliminary Screening Values (PSVs)

<i>Sample ID</i>	<i>Sample Type</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV - Surface Water</i>	<i>Unit</i>
IWSW18-035 (RE)	SITE	6/28/2006	SW	Copper	0.0092	J	mg/L	0.02	0.003	0.0036	mg/L
IWSW19-019 (RE)	SITE	6/28/2006	SW	Copper	0.011	J	mg/L	0.02	0.003	0.0036	mg/L
IWSW20-020 (RE)	SITE	6/28/2006	SW	Copper	0.0091	J	mg/L	0.02	0.003	0.0036	mg/L
IWSW30-030	BACKGROUND	6/27/2006	SW	Aldrin	0.0000044	J	mg/L	0.000025	0.00000522	0.000003	mg/L
IWSW31-031	BACKGROUND	6/27/2006	SW	Aldrin	0.000011	J	mg/L	0.000025	0.00000522	0.000003	mg/L
IWSW31-045	BACKGROUND	6/27/2006	SW	Aldrin	0.000011	J	mg/L	0.000025	0.00000522	0.000003	mg/L
IWSW32-032	BACKGROUND	6/27/2006	SW	Aldrin	0.00000881	J	mg/L	0.000025	0.00000522	0.000003	mg/L
IWSW33-033	BACKGROUND	6/27/2006	SW	4,4'-DDD	0.00000762	J	mg/L	0.00005	0.00000392	0.000007	mg/L
IWSW33-033	BACKGROUND	6/27/2006	SW	4,4'-DDT	0.000013	J	mg/L	0.00005	0.000012	0.000001	mg/L
IWSW33-033	BACKGROUND	6/27/2006	SW	Aldrin	0.000011	J	mg/L	0.000025	0.00000522	0.000003	mg/L

Table 3 - Intracoastal Waterway Sediment Data - All Detected Compounds in Site Samples

Sample ID	Collection Date	Matrix	Parameter	Result	Valid Qualifier	Unit	SQL	MDL	PSV - Sediment	Unit
IWSE-12-012 (0-0.5)	6/26/2006	SE	1,2-Dichloroethane	0.00302	J	mg/kg	0.0146	0.000114	5.99E+02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	2Diphenylhydrazine/Azobenzene	0.0317	J	mg/kg	0.566	0.00716	1.78E+01	mg/kg
IWSE-03-034-(0-0.5) 1X	6/26/2006	SE	2-Butanone	0.00165	J	mg/kg	0.00732	0.000312	4.41E+05	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	2-Methylnaphthalene	0.0188	J	mg/kg	0.097	0.00935	7.00E-02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	2-Methylnaphthalene	0.0289	J	mg/kg	0.0989	0.00935	7.00E-02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	3,3'-Dichlorobenzidine	0.151	J	mg/kg	1.13	0.0415	3.16E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	4,4'-DDE	0.000541	J	mg/kg	0.003	0.00065	2.07E-03	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	4,4'-DDT	0.00332	J	mg/kg	0.00306	0.00025	1.19E-03	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	4,4'-DDT	0.000575	J	mg/kg	0.00299	0.00025	1.19E-03	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	4,4'-DDT	0.0011	J	mg/kg	0.0041	0.00025	1.19E-03	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	4,4'-DDT	0.000481	J	mg/kg	0.00365	0.00025	1.19E-03	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	4,6-Dinitro-2-methylphenol	0.0627	J	mg/kg	2.86	0.0173	3.06E+02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Acenaphthene	0.0631	J	mg/kg	0.097	0.00861	1.60E-02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Acenaphthene	0.0722	J	mg/kg	0.0989	0.00861	1.60E-02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Acenaphthene	0.0239	J	mg/kg	0.113	0.00861	1.60E-02	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Aluminum	6470	none	mg/kg	12.2	0.72	1.53E+05	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Aluminum	5560	none	mg/kg	11.7	0.72	1.53E+05	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Aluminum	4860	none	mg/kg	12	0.72	1.53E+05	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Aluminum	4800	none	mg/kg	12	0.72	1.53E+05	mg/kg

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV-Sediment</i>	<i>Unit</i>
IWSE-04-004(0-0.5)	6/26/2006	SE	Aluminum	9420	none	mg/kg	16.4	0.72	1.53E+05	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Aluminum	8270	none	mg/kg	11.5	0.72	1.53E+05	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Aluminum	12500	none	mg/kg	12.8	0.72	1.53E+05	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Aluminum	7570	none	mg/kg	13.9	0.72	1.53E+05	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Aluminum	7150	none	mg/kg	14.6	0.72	1.53E+05	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Aluminum	9000	none	mg/kg	16.1	0.72	1.53E+05	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Aluminum	9150	none	mg/kg	15.8	0.72	1.53E+05	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Aluminum	5840	none	mg/kg	13.1	0.72	1.53E+05	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Aluminum	6220	none	mg/kg	11.7	0.72	1.53E+05	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Aluminum	4950	none	mg/kg	12.2	0.72	1.53E+05	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Aluminum	4510	none	mg/kg	11.4	0.72	1.53E+05	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Aluminum	4300	none	mg/kg	11.4	0.72	1.53E+05	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Aluminum	3900	none	mg/kg	11.8	0.72	1.53E+05	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Anthracene	0.0236	J	mg/kg	0.0958	0.00945	8.53E-02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Anthracene	0.0753	J	mg/kg	0.097	0.00945	8.53E-02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Anthracene	0.107	none	mg/kg	0.0989	0.00945	8.53E-02	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Anthracene	0.0242	J	mg/kg	0.135	0.00945	8.53E-02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Anthracene	0.041	J	mg/kg	0.0953	0.00945	8.53E-02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Anthracene	0.0546	J	mg/kg	0.113	0.00945	8.53E-02	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Anthracene	0.0256	J	mg/kg	0.0951	0.00945	8.53E-02	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Antimony	0.74	J	mg/kg	3.66	0.19	8.32E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Antimony	1.28	J	mg/kg	3.51	0.19	8.32E+01	mg/kg

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IWSE-03-003-(0-0.5)	6/26/2006	SE	Antimony	1.42	J	mg/kg	3.59	0.19	8.32E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Antimony	0.77	J	mg/kg	3.6	0.19	8.32E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Antimony	1.02	J	mg/kg	4.92	0.19	8.32E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Antimony	1.3	J	mg/kg	3.46	0.19	8.32E+01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Antimony	1.36	J	mg/kg	3.84	0.19	8.32E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Antimony	2.08	J	mg/kg	4.18	0.19	8.32E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Antimony	2.86	J	mg/kg	4.39	0.19	8.32E+01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Antimony	3.13	J	mg/kg	4.82	0.19	8.32E+01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Antimony	2.51	J	mg/kg	4.73	0.19	8.32E+01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Antimony	3.44	J	mg/kg	3.94	0.19	8.32E+01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Antimony	8.14	J-	mg/kg	3.51	0.19	8.32E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Antimony	1.79	J	mg/kg	3.66	0.19	8.32E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Antimony	1.72	J	mg/kg	3.42	0.19	8.32E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Antimony	1.78	J	mg/kg	3.43	0.19	8.32E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Antimony	1.35	J	mg/kg	3.53	0.19	8.32E+01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Arsenic	3.73	none	mg/kg	2.44	0.16	8.20E+00	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Arsenic	3.86	none	mg/kg	2.34	0.16	8.20E+00	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Arsenic	5.97	none	mg/kg	2.39	0.16	8.20E+00	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Arsenic	2.96	none	mg/kg	2.4	0.16	8.20E+00	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Arsenic	3.34	none	mg/kg	3.28	0.16	8.20E+00	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Arsenic	3.75	none	mg/kg	2.31	0.16	8.20E+00	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Arsenic	5.31	none	mg/kg	2.56	0.16	8.20E+00	mg/kg

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IWSE-07-007(0-0.5)	6/26/2006	SE	Arsenic	3.42	none	mg/kg	2.79	0.16	8.20E+00	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Arsenic	4.01	none	mg/kg	2.93	0.16	8.20E+00	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Arsenic	4.91	none	mg/kg	3.22	0.16	8.20E+00	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Arsenic	3.93	none	mg/kg	3.15	0.16	8.20E+00	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Arsenic	4.46	none	mg/kg	2.63	0.16	8.20E+00	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Arsenic	7.62	none	mg/kg	2.34	0.16	8.20E+00	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Arsenic	2.47	none	mg/kg	2.44	0.16	8.20E+00	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Arsenic	2.5	none	mg/kg	2.28	0.16	8.20E+00	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Arsenic	2.73	none	mg/kg	2.29	0.16	8.20E+00	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Arsenic	2.41	none	mg/kg	2.35	0.16	8.20E+00	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Atrazine (Aatrex)	0.0814	J	mg/kg	1.13	0.0169	6.40E+01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Barium	176	none	mg/kg	0.61	0.016	8.00E+03	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Barium	173	none	mg/kg	0.59	0.016	8.00E+03	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Barium	192	none	mg/kg	0.6	0.016	8.00E+03	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Barium	190	none	mg/kg	0.6	0.016	8.00E+03	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Barium	244	none	mg/kg	0.82	0.016	8.00E+03	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Barium	198	none	mg/kg	0.58	0.016	8.00E+03	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Barium	116	none	mg/kg	0.64	0.016	8.00E+03	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Barium	294	none	mg/kg	0.7	0.016	8.00E+03	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Barium	259	none	mg/kg	0.73	0.016	8.00E+03	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Barium	244	none	mg/kg	0.8	0.016	8.00E+03	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Barium	206	none	mg/kg	0.79	0.016	8.00E+03	mg/kg

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IWSE-11-011 (0-0.5)	6/26/2006	SE	Barium	179	none	mg/kg	0.66	0.016	8.00E+03	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Barium	198	none	mg/kg	0.58	0.016	8.00E+03	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Barium	178	none	mg/kg	0.61	0.016	8.00E+03	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Barium	213	none	mg/kg	0.57	0.016	8.00E+03	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Barium	377	none	mg/kg	0.57	0.016	8.00E+03	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Barium	197	none	mg/kg	0.59	0.016	8.00E+03	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Benzo(a)anthracene	0.395	none	mg/kg	0.097	0.0088	2.61E-01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Benzo(a)anthracene	0.541	none	mg/kg	0.0989	0.0088	2.61E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Benzo(a)anthracene	0.172	none	mg/kg	0.113	0.0088	2.61E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Benzo(a)anthracene	0.0675	J	mg/kg	0.119	0.0088	2.61E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.0762	J	mg/kg	0.0958	0.00874	4.30E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.445	none	mg/kg	0.097	0.00874	4.30E-01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.634	none	mg/kg	0.0989	0.00874	4.30E-01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.154	none	mg/kg	0.135	0.00874	4.30E-01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.0903	J	mg/kg	0.0953	0.00874	4.30E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.17	none	mg/kg	0.113	0.00874	4.30E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Benzo(a)pyrene	0.0525	J	mg/kg	0.119	0.00874	4.30E-01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.0418	J	mg/kg	0.5	0.00612	1.59E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.126	J	mg/kg	0.479	0.00612	1.59E+01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.611	none	mg/kg	0.485	0.00612	1.59E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.551	none	mg/kg	0.494	0.00612	1.59E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.196	J	mg/kg	0.674	0.00612	1.59E+01	mg/kg

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IWSE-05-005(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.141	J	mg/kg	0.476	0.00612	1.59E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.247	J	mg/kg	0.566	0.00612	1.59E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.131	J	mg/kg	0.596	0.00612	1.59E+01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.0428	J	mg/kg	0.476	0.00612	1.59E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Benzo(b)fluoranthene	0.0324	J	mg/kg	0.482	0.00612	1.59E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.0521	J	mg/kg	0.479	0.00875	3.71E+03	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.442	J	mg/kg	0.485	0.00875	3.71E+03	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.509	none	mg/kg	0.494	0.00875	3.71E+03	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.134	J	mg/kg	0.674	0.00875	3.71E+03	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.058	J	mg/kg	0.476	0.00875	3.71E+03	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.223	J	mg/kg	0.566	0.00875	3.71E+03	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.069	J	mg/kg	0.596	0.00875	3.71E+03	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Benzo(g,h,i)perylene	0.0173	J	mg/kg	0.542	0.00875	3.71E+03	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.0738	J	mg/kg	0.479	0.0135	1.59E+02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.318	J	mg/kg	0.485	0.0135	1.59E+02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.566	J-	mg/kg	0.494	0.0135	1.59E+02	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.159	J	mg/kg	0.674	0.0135	1.59E+02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.0926	J	mg/kg	0.476	0.0135	1.59E+02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.144	J	mg/kg	0.566	0.0135	1.59E+02	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Benzo(k)fluoranthene	0.0474	J	mg/kg	0.596	0.0135	1.59E+02	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Beryllium	0.44	none	mg/kg	0.3	0.003	2.66E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Beryllium	0.35	none	mg/kg	0.29	0.003	2.66E+01	mg/kg

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IWSE-03-003-(0-0.5)	6/26/2006	SE	Beryllium	0.34	none	mg/kg	0.3	0.003	2.66E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Beryllium	0.32	none	mg/kg	0.3	0.003	2.66E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Beryllium	0.61	none	mg/kg	0.41	0.003	2.66E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Beryllium	0.57	none	mg/kg	0.29	0.003	2.66E+01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Beryllium	0.82	none	mg/kg	0.32	0.003	2.66E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Beryllium	0.52	none	mg/kg	0.35	0.003	2.66E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Beryllium	0.48	none	mg/kg	0.37	0.003	2.66E+01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Beryllium	0.61	none	mg/kg	0.4	0.003	2.66E+01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Beryllium	0.61	none	mg/kg	0.39	0.003	2.66E+01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Beryllium	0.4	none	mg/kg	0.33	0.003	2.66E+01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Beryllium	0.4	none	mg/kg	0.29	0.003	2.66E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Beryllium	0.34	none	mg/kg	0.31	0.003	2.66E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Beryllium	0.33	none	mg/kg	0.28	0.003	2.66E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Beryllium	0.3	none	mg/kg	0.29	0.003	2.66E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Beryllium	0.29	J	mg/kg	0.29	0.003	2.66E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Boron	21	none	mg/kg	6.97	0.94	1.07E+05	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Boron	20.6	none	mg/kg	7.32	0.94	1.07E+05	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Boron	27.2	none	mg/kg	8.04	0.94	1.07E+05	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Boron	22.6	none	mg/kg	7.88	0.94	1.07E+05	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Boron	18.8	none	mg/kg	6.57	0.94	1.07E+05	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Boron	24.8	none	mg/kg	5.84	0.94	1.07E+05	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Boron	13.7	none	mg/kg	6.1	0.94	1.07E+05	mg/kg

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IWSE-14-014 (0-0.5)	6/26/2006	SE	Boron	13.8	none	mg/kg	5.69	0.94	1.07E+05	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Boron	13.2	none	mg/kg	5.71	0.94	1.07E+05	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Boron	12.5	none	mg/kg	5.89	0.94	1.07E+05	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Butyl benzyl phthalate	0.202	J	mg/kg	0.566	0.0108	1.10E+01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Carbazole	0.0457	J	mg/kg	0.485	0.00853	7.10E+02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Carbazole	0.0614	J	mg/kg	0.494	0.00853	7.10E+02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Carbazole	0.0195	J	mg/kg	0.476	0.00853	7.10E+02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Carbazole	0.0861	J	mg/kg	0.566	0.00853	7.10E+02	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Chloroform	0.00527	J	mg/kg	0.0183	0.000141	7.35E+03	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Chloroform	0.00504	J	mg/kg	0.0146	0.000141	7.35E+03	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Chromium	6.64	none	mg/kg	0.61	0.041	8.10E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Chromium	9.1	none	mg/kg	0.59	0.041	8.10E+01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Chromium	11	none	mg/kg	0.6	0.041	8.10E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Chromium	7.83	none	mg/kg	0.6	0.041	8.10E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Chromium	11.1	none	mg/kg	0.82	0.041	8.10E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Chromium	9.38	none	mg/kg	0.58	0.041	8.10E+01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Chromium	14.4	none	mg/kg	0.64	0.041	8.10E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Chromium	9.98	none	mg/kg	0.7	0.041	8.10E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Chromium	10.4	none	mg/kg	0.73	0.041	8.10E+01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Chromium	10.9	none	mg/kg	0.8	0.041	8.10E+01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Chromium	10.4	none	mg/kg	0.79	0.041	8.10E+01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Chromium	10.5	none	mg/kg	0.66	0.041	8.10E+01	mg/kg

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IWSE-12-012 (0-0.5)	6/26/2006	SE	Chromium	11.2	none	mg/kg	0.58	0.041	8.10E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Chromium	6.07	none	mg/kg	0.61	0.041	8.10E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Chromium	5.58	none	mg/kg	0.57	0.041	8.10E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Chromium	5.76	none	mg/kg	0.57	0.041	8.10E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Chromium	5.01	none	mg/kg	0.59	0.041	8.10E+01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Chrysene	0.0145	J	mg/kg	0.5	0.00772	3.84E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Chrysene	0.0933	J	mg/kg	0.479	0.00772	3.84E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Chrysene	0.475	J	mg/kg	0.485	0.00772	3.84E-01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Chrysene	0.653	none	mg/kg	0.494	0.00772	3.84E-01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Chrysene	0.164	J	mg/kg	0.674	0.00772	3.84E-01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Chrysene	0.118	J	mg/kg	0.476	0.00772	3.84E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Chrysene	0.197	J	mg/kg	0.566	0.00772	3.84E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Chrysene	0.0717	J	mg/kg	0.596	0.00772	3.84E-01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Chrysene	0.0336	J	mg/kg	0.664	0.00772	3.84E-01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Chrysene	0.0209	J	mg/kg	0.542	0.00772	3.84E-01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Chrysene	0.0137	J	mg/kg	0.476	0.00772	3.84E-01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Cobalt	3.93	none	mg/kg	0.61	0.022	3.20E+04	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Cobalt	3.98	none	mg/kg	0.59	0.022	3.20E+04	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Cobalt	3.22	none	mg/kg	0.6	0.022	3.20E+04	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Cobalt	3.02	none	mg/kg	0.6	0.022	3.20E+04	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Cobalt	5.07	none	mg/kg	0.82	0.022	3.20E+04	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Cobalt	5.73	none	mg/kg	0.58	0.022	3.20E+04	mg/kg

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IWSE-06-006(0-0.5)	6/26/2006	SE	Cobalt	7.16	none	mg/kg	0.64	0.022	3.20E+04	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Cobalt	4.74	none	mg/kg	0.7	0.022	3.20E+04	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Cobalt	4.47	none	mg/kg	0.73	0.022	3.20E+04	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Cobalt	5.37	none	mg/kg	0.8	0.022	3.20E+04	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Cobalt	5.36	none	mg/kg	0.79	0.022	3.20E+04	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Cobalt	4.13	none	mg/kg	0.66	0.022	3.20E+04	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Cobalt	3.99	none	mg/kg	0.58	0.022	3.20E+04	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Cobalt	3.44	none	mg/kg	0.61	0.022	3.20E+04	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Cobalt	3.25	none	mg/kg	0.57	0.022	3.20E+04	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Cobalt	3.27	none	mg/kg	0.57	0.022	3.20E+04	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Cobalt	3.05	none	mg/kg	0.59	0.022	3.20E+04	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Copper	5.84	none	mg/kg	0.61	0.057	3.40E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Copper	12.6	none	mg/kg	0.59	0.057	3.40E+01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Copper	9.2	none	mg/kg	0.6	0.057	3.40E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Copper	7.79	none	mg/kg	0.6	0.057	3.40E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Copper	9.92	none	mg/kg	0.82	0.057	3.40E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Copper	10.7	none	mg/kg	0.58	0.057	3.40E+01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Copper	11.4	none	mg/kg	0.64	0.057	3.40E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Copper	6.02	none	mg/kg	0.7	0.057	3.40E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Copper	6.74	none	mg/kg	0.73	0.057	3.40E+01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Copper	7.84	none	mg/kg	0.8	0.057	3.40E+01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Copper	6.57	none	mg/kg	0.79	0.057	3.40E+01	mg/kg

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IWSE-11-011 (0-0.5)	6/26/2006	SE	Copper	6.22	none	mg/kg	0.66	0.057	3.40E+01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Copper	7.32	none	mg/kg	0.58	0.057	3.40E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Copper	3.34	none	mg/kg	0.61	0.057	3.40E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Copper	3.37	none	mg/kg	0.57	0.057	3.40E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Copper	3.43	none	mg/kg	0.57	0.057	3.40E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Copper	3.28	none	mg/kg	0.59	0.057	3.40E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.0511	J	mg/kg	0.0958	0.00835	6.34E-02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.151	none	mg/kg	0.097	0.00835	6.34E-02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.181	none	mg/kg	0.0989	0.00835	6.34E-02	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.0694	J	mg/kg	0.135	0.00835	6.34E-02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.0624	J	mg/kg	0.0953	0.00835	6.34E-02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.235	none	mg/kg	0.113	0.00835	6.34E-02	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Dibenz(a,h)anthracene	0.06	J	mg/kg	0.108	0.00835	6.34E-02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Dibenzofuran	0.0305	J	mg/kg	0.485	0.0123	2.00E+00	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Dibenzofuran	0.0435	J	mg/kg	0.494	0.0123	2.00E+00	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Dibenzofuran	0.0268	J	mg/kg	0.566	0.0123	2.00E+00	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Diethyl phthalate	0.0389	J	mg/kg	0.566	0.0147	6.30E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Di-n-octyl phthalate	0.0147	J	mg/kg	0.485	0.00719	3.06E+03	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Di-n-octyl phthalate	0.192	J	mg/kg	0.566	0.00719	3.06E+03	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Fluoranthene	0.0309	J	mg/kg	0.5	0.00972	6.00E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Fluoranthene	0.164	J	mg/kg	0.479	0.00972	6.00E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Fluoranthene	0.804	J-	mg/kg	0.485	0.00972	6.00E-01	mg/kg

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IWSE-03-034-(0-0.5)	6/26/2006	SE	Fluoranthene	0.908	J-	mg/kg	0.494	0.00972	6.00E-01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Fluoranthene	0.231	J	mg/kg	0.674	0.00972	6.00E-01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Fluoranthene	0.206	J	mg/kg	0.476	0.00972	6.00E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Fluoranthene	0.124	J	mg/kg	0.566	0.00972	6.00E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Fluoranthene	0.158	J	mg/kg	0.596	0.00972	6.00E-01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Fluoranthene	0.0222	J	mg/kg	0.476	0.00972	6.00E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Fluorene	0.0124	J	mg/kg	0.0958	0.00849	1.90E-02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Fluorene	0.046	J	mg/kg	0.097	0.00849	1.90E-02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Fluorene	0.0677	J	mg/kg	0.0989	0.00849	1.90E-02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Fluorene	0.0241	J	mg/kg	0.0953	0.00849	1.90E-02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Fluorene	0.0277	J	mg/kg	0.113	0.00849	1.90E-02	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	gamma-Chlordane	0.000638	J	mg/kg	0.00164	0.00044	4.10E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	gamma-Chlordane	0.000658	J	mg/kg	0.00152	0.00044	4.10E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	gamma-Chlordane	0.000686	J	mg/kg	0.00143	0.00044	4.10E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	gamma-Chlordane	0.000826	J	mg/kg	0.00142	0.00044	4.10E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Hexachlorobenzene	0.0319	J	mg/kg	0.566	0.0106	8.88E+00	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.08	J	mg/kg	0.479	0.014	1.59E+01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.405	J	mg/kg	0.485	0.014	1.59E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.77	none	mg/kg	0.494	0.014	1.59E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.199	J	mg/kg	0.674	0.014	1.59E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.0945	J	mg/kg	0.476	0.014	1.59E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.209	J	mg/kg	0.566	0.014	1.59E+01	mg/kg

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IWSE-08-008 (0-0.5)	6/26/2006	SE	Indeno(1,2,3-cd)pyrene	0.0556	J	mg/kg	0.596	0.014	1.59E+01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Iron	10000	J	mg/kg	6.09	0.92	NA	NA
IWSE-02-002-(0-0.5)	6/26/2006	SE	Iron	14200	J	mg/kg	5.86	0.92	NA	NA
IWSE-03-003-(0-0.5)	6/26/2006	SE	Iron	18600	J	mg/kg	5.98	0.92	NA	NA
IWSE-03-034-(0-0.5)	6/26/2006	SE	Iron	9620	J	mg/kg	5.99	0.92	NA	NA
IWSE-04-004(0-0.5)	6/26/2006	SE	Iron	13100	J	mg/kg	8.19	0.92	NA	NA
IWSE-05-005(0-0.5)	6/26/2006	SE	Iron	13600	J	mg/kg	5.77	0.92	NA	NA
IWSE-06-006(0-0.5)	6/26/2006	SE	Iron	21000	J	mg/kg	6.41	0.92	NA	NA
IWSE-07-007(0-0.5)	6/26/2006	SE	Iron	11600	J	mg/kg	6.97	0.92	NA	NA
IWSE-08-008 (0-0.5)	6/26/2006	SE	Iron	12600	J	mg/kg	7.32	0.92	NA	NA
IWSE-09-009 (0-0.5)	6/26/2006	SE	Iron	14100	J	mg/kg	8.04	0.92	NA	NA
IWSE-10-010 (0-0.5)	6/26/2006	SE	Iron	13400	J	mg/kg	7.88	0.92	NA	NA
IWSE-11-011 (0-0.5)	6/26/2006	SE	Iron	13300	J	mg/kg	6.57	0.92	NA	NA
IWSE-12-012 (0-0.5)	6/26/2006	SE	Iron	28200	J	mg/kg	5.84	0.92	NA	NA
IWSE-13-013 (0-0.5)	6/26/2006	SE	Iron	7790	J	mg/kg	6.1	0.92	NA	NA
IWSE-14-014 (0-0.5)	6/26/2006	SE	Iron	7620	J	mg/kg	5.69	0.92	NA	NA
IWSE-15-015 (0-0.5)	6/26/2006	SE	Iron	7770	J	mg/kg	5.71	0.92	NA	NA
IWSE-16-016 (0-0.5)	6/26/2006	SE	Iron	6750	J	mg/kg	5.89	0.92	NA	NA
IWSE-08-008 (0-0.5)	6/26/2006	SE	Isopropylbenzene (Cumene)	0.00704	J	mg/kg	0.0183	0.000153	7.35E+04	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Isopropylbenzene (Cumene)	0.00464	J	mg/kg	0.0146	0.000153	7.35E+04	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Lead	8.21	J	mg/kg	0.91	0.065	4.67E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Lead	7.82	J	mg/kg	0.88	0.065	4.67E+01	mg/kg

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV - Sediment</i>	<i>Unit</i>
IWSE-03-003-(0-0.5)	6/26/2006	SE	Lead	32.3	J	mg/kg	0.9	0.065	4.67E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Lead	18.2	J	mg/kg	0.9	0.065	4.67E+01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Lead	12.4	J	mg/kg	1.23	0.065	4.67E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Lead	23.6	J	mg/kg	0.87	0.065	4.67E+01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Lead	11.5	J	mg/kg	0.96	0.065	4.67E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Lead	12.8	J	mg/kg	1.05	0.065	4.67E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Lead	10.1	J	mg/kg	1.1	0.065	4.67E+01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Lead	10.4	J	mg/kg	1.21	0.065	4.67E+01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Lead	9.23	J	mg/kg	1.18	0.065	4.67E+01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Lead	14.5	J	mg/kg	0.99	0.065	4.67E+01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Lead	9.95	J	mg/kg	0.88	0.065	4.67E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Lead	6.03	J	mg/kg	0.92	0.065	4.67E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Lead	5.66	J	mg/kg	0.85	0.065	4.67E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Lead	5.39	J	mg/kg	0.86	0.065	4.67E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Lead	5	J	mg/kg	0.88	0.065	4.67E+01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Lithium	9.95	none	mg/kg	3.05	0.14	1.07E+04	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Lithium	8.55	none	mg/kg	2.93	0.14	1.07E+04	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Lithium	7.36	none	mg/kg	2.99	0.14	1.07E+04	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Lithium	7.28	none	mg/kg	3	0.14	1.07E+04	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Lithium	13.8	none	mg/kg	4.1	0.14	1.07E+04	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Lithium	11.3	none	mg/kg	2.88	0.14	1.07E+04	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Lithium	20	none	mg/kg	3.2	0.14	1.07E+04	mg/kg

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV - Sediment</i>	<i>Unit</i>
IWSE-07-007(0-0.5)	6/26/2006	SE	Lithium	11.7	none	mg/kg	3.49	0.14	1.07E+04	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Lithium	10.8	none	mg/kg	3.66	0.14	1.07E+04	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Lithium	13.8	none	mg/kg	4.02	0.14	1.07E+04	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Lithium	13.9	none	mg/kg	3.94	0.14	1.07E+04	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Lithium	9.38	none	mg/kg	3.29	0.14	1.07E+04	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Lithium	9.81	none	mg/kg	2.92	0.14	1.07E+04	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Lithium	7.69	none	mg/kg	3.05	0.14	1.07E+04	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Lithium	7.15	none	mg/kg	2.85	0.14	1.07E+04	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Lithium	6.94	none	mg/kg	2.86	0.14	1.07E+04	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Lithium	6.4	none	mg/kg	2.94	0.14	1.07E+04	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Manganese	193	none	mg/kg	0.91	0.029	1.40E+04	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Manganese	199	none	mg/kg	0.88	0.029	1.40E+04	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Manganese	241	none	mg/kg	0.9	0.029	1.40E+04	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Manganese	186	none	mg/kg	0.9	0.029	1.40E+04	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Manganese	374	none	mg/kg	1.23	0.029	1.40E+04	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Manganese	315	none	mg/kg	0.87	0.029	1.40E+04	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Manganese	336	none	mg/kg	0.96	0.029	1.40E+04	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Manganese	245	none	mg/kg	1.05	0.029	1.40E+04	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Manganese	305	none	mg/kg	1.1	0.029	1.40E+04	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Manganese	474	none	mg/kg	1.21	0.029	1.40E+04	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Manganese	405	none	mg/kg	1.18	0.029	1.40E+04	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Manganese	328	none	mg/kg	0.99	0.029	1.40E+04	mg/kg

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IWSE-12-012 (0-0.5)	6/26/2006	SE	Manganese	325	none	mg/kg	0.88	0.029	1.40E+04	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Manganese	199	none	mg/kg	0.92	0.029	1.40E+04	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Manganese	204	none	mg/kg	0.85	0.029	1.40E+04	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Manganese	197	none	mg/kg	0.86	0.029	1.40E+04	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Manganese	192	none	mg/kg	0.88	0.029	1.40E+04	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Mercury	0.025	none	mg/kg	0.015	0.002	1.50E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Mercury	0.025	none	mg/kg	0.015	0.002	1.50E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Mercury	0.031	none	mg/kg	0.015	0.002	1.50E-01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Mercury	0.02	none	mg/kg	0.015	0.002	1.50E-01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Mercury	0.036	none	mg/kg	0.02	0.002	1.50E-01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Mercury	0.022	none	mg/kg	0.014	0.002	1.50E-01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Mercury	0.022	none	mg/kg	0.016	0.002	1.50E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Mercury	0.013	J	mg/kg	0.017	0.002	1.50E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Mercury	0.026	none	mg/kg	0.018	0.002	1.50E-01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Mercury	0.023	none	mg/kg	0.02	0.002	1.50E-01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Mercury	0.016	J	mg/kg	0.02	0.002	1.50E-01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Mercury	0.018	none	mg/kg	0.016	0.002	1.50E-01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Mercury	0.015	none	mg/kg	0.014	0.002	1.50E-01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Mercury	0.012	J	mg/kg	0.015	0.002	1.50E-01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Mercury	0.012	J	mg/kg	0.014	0.002	1.50E-01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Mercury	0.014	J	mg/kg	0.014	0.002	1.50E-01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Mercury	0.011	J	mg/kg	0.015	0.002	1.50E-01	mg/kg

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IWSE-12-012 (0-0.5)	6/26/2006	SE	Methylcyclohexane	0.0037	J	mg/kg	0.0146	0.00037	1.00E+06	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Molybdenum	0.19	J	mg/kg	1.83	0.062	1.84E+03	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Molybdenum	0.68	J	mg/kg	1.76	0.062	1.84E+03	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Molybdenum	0.52	J	mg/kg	1.79	0.062	1.84E+03	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Molybdenum	0.24	J	mg/kg	1.8	0.062	1.84E+03	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Molybdenum	0.14	J	mg/kg	2.46	0.062	1.84E+03	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Molybdenum	0.23	J	mg/kg	1.73	0.062	1.84E+03	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Molybdenum	0.15	J	mg/kg	1.92	0.062	1.84E+03	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Molybdenum	0.3	J	mg/kg	2.09	0.062	1.84E+03	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Molybdenum	0.34	J	mg/kg	2.2	0.062	1.84E+03	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Molybdenum	0.25	J	mg/kg	2.41	0.062	1.84E+03	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Molybdenum	0.24	J	mg/kg	2.36	0.062	1.84E+03	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Molybdenum	5.66	none	mg/kg	1.97	0.062	1.84E+03	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Molybdenum	1.17	J	mg/kg	1.75	0.062	1.84E+03	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Molybdenum	0.22	J	mg/kg	1.83	0.062	1.84E+03	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Molybdenum	0.16	J	mg/kg	1.71	0.062	1.84E+03	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Molybdenum	0.24	J	mg/kg	1.71	0.062	1.84E+03	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Molybdenum	0.18	J	mg/kg	1.77	0.062	1.84E+03	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Nickel	8.12	none	mg/kg	2.44	0.059	2.09E+01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Nickel	10.1	none	mg/kg	2.34	0.059	2.09E+01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Nickel	7.97	none	mg/kg	2.39	0.059	2.09E+01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Nickel	6.76	none	mg/kg	2.4	0.059	2.09E+01	mg/kg

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IWSE-04-004(0-0.5)	6/26/2006	SE	Nickel	10.9	none	mg/kg	3.28	0.059	2.09E+01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Nickel	11.1	none	mg/kg	2.31	0.059	2.09E+01	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Nickel	16.7	none	mg/kg	2.56	0.059	2.09E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Nickel	9.91	none	mg/kg	2.79	0.059	2.09E+01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Nickel	9.95	none	mg/kg	2.93	0.059	2.09E+01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Nickel	11.5	none	mg/kg	3.22	0.059	2.09E+01	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Nickel	11.3	none	mg/kg	3.15	0.059	2.09E+01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Nickel	9.88	none	mg/kg	2.63	0.059	2.09E+01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Nickel	10.9	none	mg/kg	2.34	0.059	2.09E+01	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Nickel	6.75	none	mg/kg	2.44	0.059	2.09E+01	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Nickel	6.19	none	mg/kg	2.28	0.059	2.09E+01	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Nickel	6.35	none	mg/kg	2.29	0.059	2.09E+01	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Nickel	5.8	none	mg/kg	2.35	0.059	2.09E+01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	n-Nitrosodiphenylamine	0.0434	J	mg/kg	0.566	0.00985	9.01E+02	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Phenanthrene	0.0373	J	mg/kg	0.1	0.0107	2.40E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Phenanthrene	0.115	none	mg/kg	0.0958	0.0107	2.40E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Phenanthrene	0.508	none	mg/kg	0.097	0.0107	2.40E-01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Phenanthrene	0.691	none	mg/kg	0.0989	0.0107	2.40E-01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Phenanthrene	0.125	J	mg/kg	0.135	0.0107	2.40E-01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Phenanthrene	0.167	none	mg/kg	0.0953	0.0107	2.40E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Phenanthrene	0.0645	J	mg/kg	0.113	0.0107	2.40E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Phenanthrene	0.0756	J	mg/kg	0.119	0.0107	2.40E-01	mg/kg

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IWSE-12-012 (0-0.5)	6/26/2006	SE	Phenanthrene	0.0311	J	mg/kg	0.0951	0.0107	2.40E-01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Pyrene	0.0244	J	mg/kg	0.5	0.0104	6.65E-01	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Pyrene	0.185	J	mg/kg	0.479	0.0104	6.65E-01	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Pyrene	0.862	none	mg/kg	0.485	0.0104	6.65E-01	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Pyrene	1.01	none	mg/kg	0.494	0.0104	6.65E-01	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Pyrene	0.285	J	mg/kg	0.674	0.0104	6.65E-01	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Pyrene	0.308	J	mg/kg	0.476	0.0104	6.65E-01	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Pyrene	0.134	J	mg/kg	0.566	0.0104	6.65E-01	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Pyrene	0.158	J	mg/kg	0.596	0.0104	6.65E-01	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Pyrene	0.0215	J	mg/kg	0.664	0.0104	6.65E-01	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Pyrene	0.0176	J	mg/kg	0.542	0.0104	6.65E-01	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Pyrene	0.0345	J	mg/kg	0.476	0.0104	6.65E-01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Silver	0.3	J	mg/kg	0.61	0.047	1.00E+00	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Silver	0.38	J	mg/kg	0.59	0.047	1.00E+00	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Silver	0.41	J	mg/kg	0.6	0.047	1.00E+00	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Silver	0.28	J	mg/kg	0.6	0.047	1.00E+00	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Silver	0.4	J	mg/kg	0.82	0.047	1.00E+00	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Silver	0.33	J	mg/kg	0.58	0.047	1.00E+00	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Silver	0.54	J	mg/kg	0.64	0.047	1.00E+00	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Strontium	40.1	none	mg/kg	0.61	0.022	1.52E+05	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Strontium	34.2	none	mg/kg	0.59	0.022	1.52E+05	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Strontium	34.6	none	mg/kg	0.6	0.022	1.52E+05	mg/kg

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV-Sediment</i>	<i>Unit</i>
IWSE-03-034-(0-0.5)	6/26/2006	SE	Strontium	34.9	none	mg/kg	0.6	0.022	1.52E+05	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Strontium	41.2	none	mg/kg	0.82	0.022	1.52E+05	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Strontium	81.7	none	mg/kg	0.58	0.022	1.52E+05	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Strontium	75.3	none	mg/kg	0.64	0.022	1.52E+05	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Strontium	35.1	none	mg/kg	0.7	0.022	1.52E+05	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Strontium	39.3	none	mg/kg	0.73	0.022	1.52E+05	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Strontium	39.6	none	mg/kg	0.8	0.022	1.52E+05	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Strontium	41.5	none	mg/kg	0.79	0.022	1.52E+05	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Strontium	51.6	none	mg/kg	0.66	0.022	1.52E+05	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Strontium	50.3	none	mg/kg	0.58	0.022	1.52E+05	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Strontium	32.8	none	mg/kg	0.61	0.022	1.52E+05	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Strontium	38.7	none	mg/kg	0.57	0.022	1.52E+05	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Strontium	49	none	mg/kg	0.57	0.022	1.52E+05	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Strontium	32.8	none	mg/kg	0.59	0.022	1.52E+05	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Titanium	22.4	none	mg/kg	6.09	0.013	1.00E+06	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Titanium	24.3	none	mg/kg	5.86	0.013	1.00E+06	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Titanium	24.4	none	mg/kg	5.98	0.013	1.00E+06	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Titanium	22.5	none	mg/kg	5.99	0.013	1.00E+06	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Titanium	36.6	none	mg/kg	8.19	0.013	1.00E+06	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Titanium	20.6	none	mg/kg	5.77	0.013	1.00E+06	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Titanium	27.2	none	mg/kg	6.41	0.013	1.00E+06	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Titanium	27.7	none	mg/kg	6.97	0.013	1.00E+06	mg/kg

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV - Sediment</i>	<i>Unit</i>
IWSE-08-008 (0-0.5)	6/26/2006	SE	Titanium	28.9	none	mg/kg	7.32	0.013	1.00E+06	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Titanium	29.9	none	mg/kg	8.04	0.013	1.00E+06	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Titanium	35.4	none	mg/kg	7.88	0.013	1.00E+06	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Titanium	22.5	none	mg/kg	6.57	0.013	1.00E+06	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Titanium	22.7	none	mg/kg	5.84	0.013	1.00E+06	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Titanium	23.6	none	mg/kg	6.1	0.013	1.00E+06	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Titanium	21.8	none	mg/kg	5.69	0.013	1.00E+06	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Titanium	22.1	none	mg/kg	5.71	0.013	1.00E+06	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Titanium	19.1	none	mg/kg	5.89	0.013	1.00E+06	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Toluene	0.00581	J	mg/kg	0.0146	0.00055	6.70E-01	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Total Moisture	34.9		%	NA	NA	NA	NA
IWSE-02-002-(0-0.5)	6/26/2006	SE	Total Moisture	32.3		%	NA	NA	NA	NA
IWSE-03-003-(0-0.5)	6/26/2006	SE	Total Moisture	33.1		%	NA	NA	NA	NA
IWSE-03-034-(0-0.5)	6/26/2006	SE	Total Moisture	33.3		%	NA	NA	NA	NA
IWSE-04-004(0-0.5)	6/26/2006	SE	Total Moisture	51.2		%	NA	NA	NA	NA
IWSE-05-005(0-0.5)	6/26/2006	SE	Total Moisture	31.2		%	NA	NA	NA	NA
IWSE-06-006(0-0.5)	6/26/2006	SE	Total Moisture	38.1		%	NA	NA	NA	NA
IWSE-07-007(0-0.5)	6/26/2006	SE	Total Moisture	42.6		%	NA	NA	NA	NA
IWSE-08-008 (0-0.5)	6/26/2006	SE	Total Moisture	45.4		%	NA	NA	NA	NA
IWSE-09-009 (0-0.5)	6/26/2006	SE	Total Moisture	50.6		%	NA	NA	NA	NA
IWSE-10-010 (0-0.5)	6/26/2006	SE	Total Moisture	49.6		%	NA	NA	NA	NA
IWSE-11-011 (0-0.5)	6/26/2006	SE	Total Moisture	39.2		%	NA	NA	NA	NA

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV - Sediment</i>	<i>Unit</i>
IWSE-12-012 (0-0.5)	6/26/2006	SE	Total Moisture	31.5		%	NA	NA	NA	NA
IWSE-13-013 (0-0.5)	6/26/2006	SE	Total Moisture	35		%	NA	NA	NA	NA
IWSE-14-014 (0-0.5)	6/26/2006	SE	Total Moisture	30.3		%	NA	NA	NA	NA
IWSE-15-015 (0-0.5)	6/26/2006	SE	Total Moisture	30		%	NA	NA	NA	NA
IWSE-16-016 (0-0.5)	6/26/2006	SE	Total Moisture	32.1		%	NA	NA	NA	NA
IWSE-02-002-(0-0.5)	6/26/2006	SE	Total Organic Carbon	7520	none	mg/kg	200	146	NA	NA
IWSE-01-001-(0-0.5)	6/26/2006	SE	Vanadium	14	none	mg/kg	1.22	0.014	3.29E+02	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Vanadium	11.7	none	mg/kg	1.17	0.014	3.29E+02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Vanadium	11.4	none	mg/kg	1.2	0.014	3.29E+02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Vanadium	11	none	mg/kg	1.2	0.014	3.29E+02	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Vanadium	17.7	none	mg/kg	1.64	0.014	3.29E+02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Vanadium	17.9	none	mg/kg	1.15	0.014	3.29E+02	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Vanadium	21.2	none	mg/kg	1.28	0.014	3.29E+02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Vanadium	14.6	none	mg/kg	1.39	0.014	3.29E+02	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Vanadium	14.1	none	mg/kg	1.46	0.014	3.29E+02	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Vanadium	17.1	none	mg/kg	1.61	0.014	3.29E+02	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Vanadium	17.4	none	mg/kg	1.58	0.014	3.29E+02	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Vanadium	12.9	none	mg/kg	1.31	0.014	3.29E+02	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Vanadium	11.9	none	mg/kg	1.17	0.014	3.29E+02	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Vanadium	10.6	none	mg/kg	1.22	0.014	3.29E+02	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Vanadium	10.4	none	mg/kg	1.14	0.014	3.29E+02	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Vanadium	9.8	none	mg/kg	1.14	0.014	3.29E+02	mg/kg

<i>Sample ID</i>	<i>Collection Date</i>	<i>Matrix</i>	<i>Parameter</i>	<i>Result</i>	<i>Valid Qualifier</i>	<i>Unit</i>	<i>SQL</i>	<i>MDL</i>	<i>PSV-Sediment</i>	<i>Unit</i>
IWSE-16-016 (0-0.5)	6/26/2006	SE	Vanadium	9.06	none	mg/kg	1.18	0.014	3.29E+02	mg/kg
IWSE-01-001-(0-0.5)	6/26/2006	SE	Zinc	25.2	J	mg/kg	1.22	0.18	1.50E+02	mg/kg
IWSE-02-002-(0-0.5)	6/26/2006	SE	Zinc	35.4	J	mg/kg	1.17	0.18	1.50E+02	mg/kg
IWSE-03-003-(0-0.5)	6/26/2006	SE	Zinc	92.6	J	mg/kg	1.2	0.18	1.50E+02	mg/kg
IWSE-03-034-(0-0.5)	6/26/2006	SE	Zinc	68.3	J	mg/kg	1.2	0.18	1.50E+02	mg/kg
IWSE-04-004(0-0.5)	6/26/2006	SE	Zinc	62.8	J	mg/kg	1.64	0.18	1.50E+02	mg/kg
IWSE-05-005(0-0.5)	6/26/2006	SE	Zinc	63.7	J	mg/kg	1.15	0.18	1.50E+02	mg/kg
IWSE-06-006(0-0.5)	6/26/2006	SE	Zinc	36.1	J	mg/kg	1.28	0.18	1.50E+02	mg/kg
IWSE-07-007(0-0.5)	6/26/2006	SE	Zinc	49.8	J	mg/kg	1.39	0.18	1.50E+02	mg/kg
IWSE-08-008 (0-0.5)	6/26/2006	SE	Zinc	60.1	J	mg/kg	1.46	0.18	1.50E+02	mg/kg
IWSE-09-009 (0-0.5)	6/26/2006	SE	Zinc	56	J	mg/kg	1.61	0.18	1.50E+02	mg/kg
IWSE-10-010 (0-0.5)	6/26/2006	SE	Zinc	37.4	J	mg/kg	1.58	0.18	1.50E+02	mg/kg
IWSE-11-011 (0-0.5)	6/26/2006	SE	Zinc	55.2	J	mg/kg	1.31	0.18	1.50E+02	mg/kg
IWSE-12-012 (0-0.5)	6/26/2006	SE	Zinc	54.8	J	mg/kg	1.17	0.18	1.50E+02	mg/kg
IWSE-13-013 (0-0.5)	6/26/2006	SE	Zinc	25.2	J	mg/kg	1.22	0.18	1.50E+02	mg/kg
IWSE-14-014 (0-0.5)	6/26/2006	SE	Zinc	24	J	mg/kg	1.14	0.18	1.50E+02	mg/kg
IWSE-15-015 (0-0.5)	6/26/2006	SE	Zinc	29.4	J	mg/kg	1.14	0.18	1.50E+02	mg/kg
IWSE-16-016 (0-0.5)	6/26/2006	SE	Zinc	18	J	mg/kg	1.18	0.18	1.50E+02	mg/kg

Table 4. Max. Measured Site Sediment Conc. and Fish Ingestion Screening Levels (mg/kg)

COMPOUND	Bioaccumulative? ¹	Max. Conc. Site	Data Qual. ²	Max. Conc. Background	Data Qual. ²	fishSED PCL ³
aluminum	No	12,500		21,800		NB ⁴
antimony	No	8.14	J-	7.33	J-	NB
arsenic	No	7.62		9.62		NB
barium	No	377		280		NB
beryllium	No	0.82		1.32		NB
boron	No	27.2		47.9		NB
chromium	No	14.4		22.5		NB
cobalt	No	7.2		11.8		NB
copper	Yes	12.6		16.8		194.7
lead	No	32.3	J	14.5		NB
lithium	No	20.0		44.6		NB
manganese	No	474		442		NB
mercury	Yes	0.036		0.030		0.152
molybdenum	No	5.66		0.35		NB
nickel	Yes	16.7		27.3		1802
strontium	No	81.7		87.4		NB
titanium	No	36.6		54.5		NB
vanadium	No	21.2		34.2		NB
zinc	Yes	92.6		54.1		1,327
gamma-chlordane	Yes	0.00083	J	ND ⁵		15,669
4,4-DDE	Yes	0.000541	J	ND		0.0298
4,4-DDT	Yes	0.00332	J	0.000570	J	1.1673
acenaphthene	No	0.0722		ND		1,347
anthracene	No	0.107		ND		75.4
benzo(a)pyrene	No	0.634		ND		0.866
benzo(a)anthracene	No	0.541		ND		4.53
benzo(b)fluoranthene	No	0.611		0.0369	J	7.47
benzo(g,h,i)perylene	No	0.509		ND		261
benzo(k)fluoranthene	No	0.566	J-	ND		74.3
chrysene	No	0.653		ND		438
dibenzo(a,h)anthracene	No	0.235		ND		1.24
fluoranthene	No	0.908	J-	ND		348
fluorene	No	0.0677	J-	ND		715
hexachlorobenzene	Yes	0.0319	J	ND		0.1690
indeno(1,2,3-cd)pyrene	No	0.770		ND		27.9
phenanthrene	No	0.691		ND		1,267
pyrene	No	1.01		ND		477

Notes:

¹Bioaccumulative characterization per Table 3-1 of TCEQ ecorisk guidance (RG-263).

²Data qualifiers: J = estimated value (typically between sample quantitation limit and method detection limit).

J- = estimated value, biased low.

³Calculations based on TCEQ guidance (RG-366). See Attachment B.

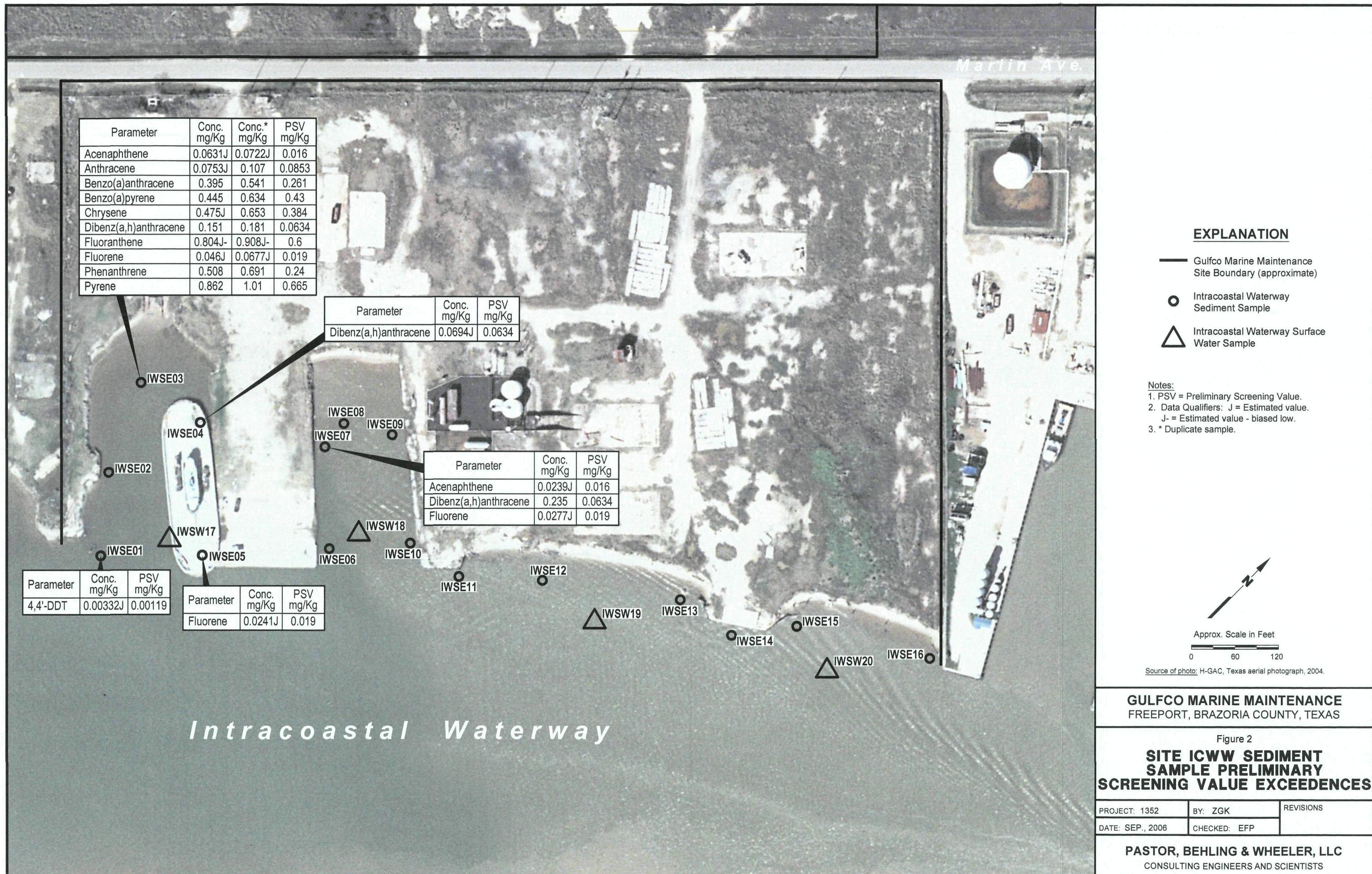
⁴NB - For non-bioaccumulative metals no Koc value is available and thus the FishSED PCL could not be calculated.

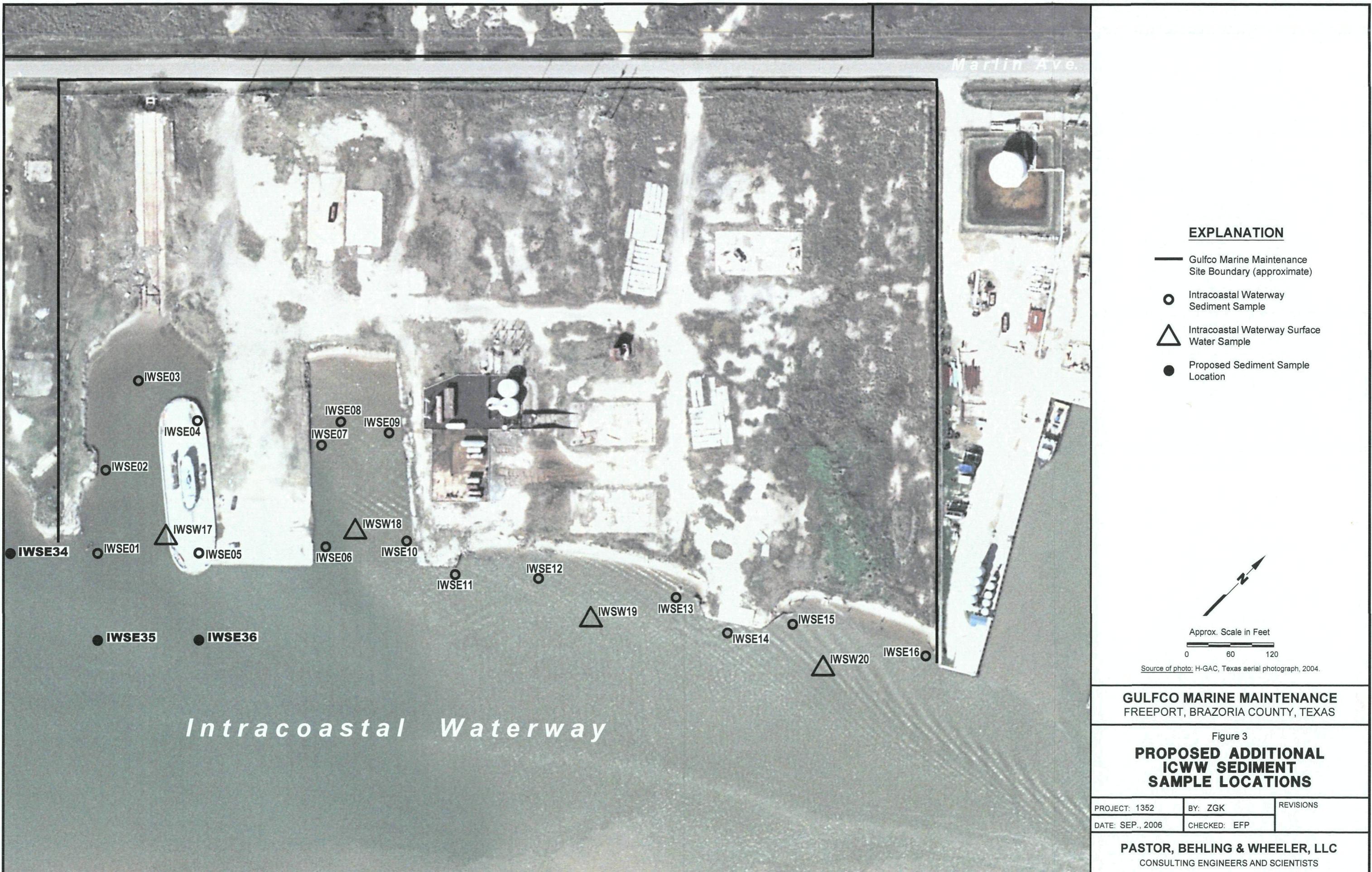
⁵ND - compound not detected in background sample set.

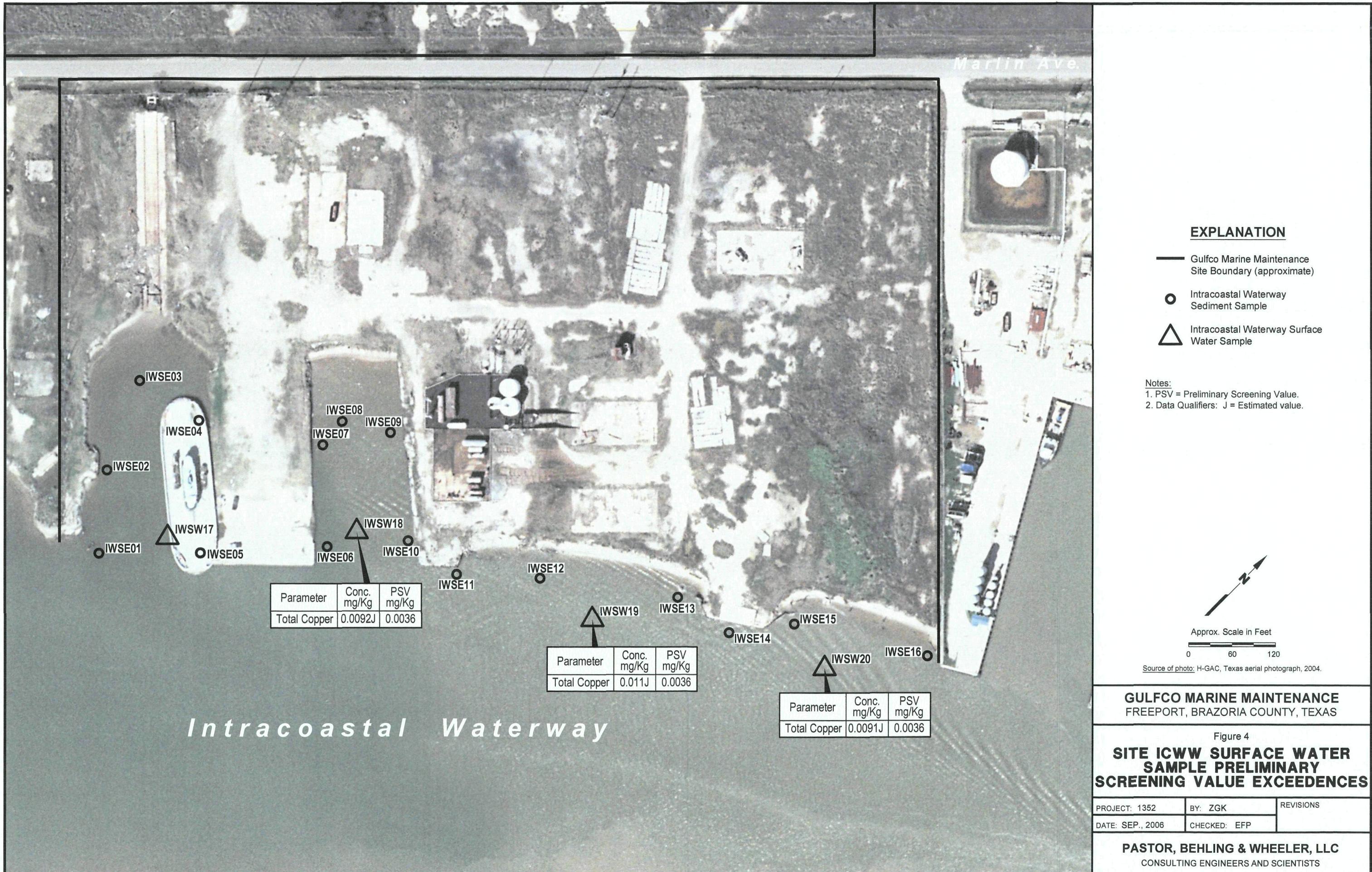
⁶Background maximum concentrations exceeding maximum Site concentrations are shown in bold.

FIGURES











ATTACHMENT A

REFERENCES

REFERENCES

- CDM, 2002. Calcasieu Estuary Remedial Investigation/Feasibility Study Report. Prepared for EPA Region 6.
- Texas Commission on Environmental Quality (TCEQ), 2001. Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas. Toxicology and Risk Assessment Section. RG-263 (Revised). December.
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- United States Environmental Protection Agency (EPA), 1989. Assessing Human Health Risks from Chemically Contaminated Fish and Shellfish: A Guidance Manual. Office of Marine and Estuarine Protection and Office of Water Regulations and Standards. EPA-503/8-89-002. September.
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- Weston Solutions Inc., 2003. Screening Human Health Risk Assessment – Remedial Investigation Report, Appendix C, State Marine Superfund Site, Port Arthur, Texas. Prepared for EPA Region 6. April.

ATTACHMENT B

FISH INGESTION PATHWAY SCREENING VALUE CALCULATIONS

Risk-Based Exposure Limit for Human Ingestion of Fish Tissue

RBEL for carcinogens (mg/kg) = $(RL \times BW \times ATc) / (SFo \times IR \times EF \times ED)$

RBEL for non-carcinogens (mg/kg) = $(HQ \times BW \times RFDo \times ATnc) / (IR \times EF \times ED)$

where:

	=		Value	Reference
RL	=	Target Risk Level	1.00E-05	TCEQ
BW	=	Body Weight (kg)	7.00E+01	TCEQ
SFo	=	Cancer Slope Factor oral 1/(mg/kg-day)	chemical specific	
HQ	=	Target Hazard Quotient	1.00E+00	TCEQ
RFDo	=	Reference Dose oral (mg/kg-day)	chemical specific	
IR	=	Ingestion Rate (kg/day)	1.50E-02	TCEQ
EF	=	Exposure Frequency (days/year)	3.50E+02	residential exposure
ED	=	Exposure Duration (years)	3.00E+01	residential exposure
ATc	=	Averaging Time carcinogens (days)	2.56E+04	365 days times 70 years
ATnc	=	Averaging Time noncarcinogens (days)	1.10E+04	365 days times 30 years

$$BSAF = BCF \text{ or } BAF / Koc$$

Compound	SFo	RFDo	BAF (L/kg)	BCF (L/kg)	Koc (mL/g)	calculated BSAF (unitless)	lit value	carcinogenic RBEL (mg/kg)	noncarcinogenic RBEL (mg/kg)
aluminum		1.00E+00	5.00E+02					4.87E+03	
antimony		4.00E-04	1.00E+02	4.00E+01				1.95E+00	
arsenic	1.50E+00	3.00E-04	3.00E+02	2.00E+01			7.57E-02	1.46E+00	
barium		2.00E-01	4.00E+00					9.73E+02	
beryllium	4.30E+00	2.00E-03	1.00E+02	4.20E+01			2.64E-02	9.73E+00	
boron		2.00E-01						9.73E+02	
chromium		1.00E+00	2.00E+02	2.83E+02				4.87E+03	
cobalt		6.00E-02	3.00E+02					2.92E+02	
copper#		4.00E-02	2.00E+02	3.60E+01		1.00E+00	max calcasieu	1.95E+02	
lead+						6.00E-03	max calcasieu		
lithium		2.00E-02						9.73E+01	
manganese		1.40E-01	4.00E+02					6.81E+02	
mercury		1.00E-04	1.00E+03	6.80E+06		3.20E+00	max calcasieu	4.87E-01	
molybdenum		5.00E-03	1.00E+01					2.43E+01	
nickel		2.00E-02	1.00E+02	3.07E+02		5.40E-02	max calcasieu	9.73E+01	
strontium		6.00E-01	6.00E+01					2.92E+03	
titanium		5.00E+02						2.43E+06	
vanadium		7.00E-02						3.41E+02	
zinc		3.00E-01	1.00E+03	6.54E+02		1.10E+00	max calcasieu	1.46E+03	
gamma-chlordane	3.50E-01	5.00E-01		6.07E-01	5.13E+04	1.18E-05	3.24E-01	2.43E+03	
4,4-DDE	3.40E-01			5.53E+05	8.64E+04	6.40E+00	3.34E-01		
4,4-DDT	3.40E-01	5.00E-04	4.30E+05		2.63E+06	1.63E-01	3.34E-01	2.43E+00	
acenaphthene		6.00E-02		6.07E+02	4.90E+03	1.24E-01		2.92E+02	
anthracene		3.00E-01	2.60E+03		2.35E+02	1.11E+01		1.46E+03	
benzo(a)pyrene	7.30E+00		9.95E+03		9.69E+05	1.03E-02		1.56E-02	
benzo(a)anthracene	7.31E-01		5.10E+03		2.60E+05	1.96E-02		1.55E-01	
benzo(b)fluoranthene	7.30E-01		9.95E+03		8.36E+05	1.19E-02		1.56E-01	
benzo(g,h,i)perylene		3.00E-02	1.57E+04	^	4.91E+04	3.20E-01		1.46E+02	
benzo(k)fluoranthene	7.30E-02		9.95E+03		8.32E+05	1.20E-02		1.56E+00	
chrysene	7.30E-03		6.03E+03		2.97E+05	2.03E-02		1.56E+01	
dibenz(a,h)anthracene	7.30E+00		1.28E+04		1.79E+06	7.15E-03		1.56E-02	
fluoranthene		4.00E-02	1.57E+04		4.91E+04	3.20E-01		1.95E+02	
fluorene		4.00E-02	1.20E+03		7.71E+03	1.56E-01		1.95E+02	
hexachlorobenzene	1.60E+00	8.00E-04	5.52E+04		8.00E+04	2.40E-01	max calcasieu	7.10E-02	3.89E+00
indeno(1,2,3-cd)pyrene	7.30E-01		1.31E+04		4.11E+06	3.19E-03		1.56E-01	
phenanthrene^		3.00E-02	3.30E+03		5.01E+04	6.59E-02		1.46E+02	

pyrene	3.00E-02	1.19E+04	6.80E+04	1.75E-01	1.46E+02
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BCF from HWIR doc; BAF for inorganics from http://risk.lsd.ornl.gov/cgi-bin/tox/TOX_9801

=+ no oral SF or RfD

^aused RfD for pyrene as surrogate

-used di-n-octylphthalate as surrogate

^{**}used 1,3,5-trimethylbenzene as surrogate

^{^^}used physical data for fluoranthene as surrogate

FishSedPCL = (RBEL x OCsed)/(lipid x BSAF)

where:

OCsed	=	fraction of organic carbon in bottom sediment (unitless)	4.00E-02	combustion guidance doc
lipid	=	fish lipid content (unitless)	7.00E-02	combustion guidance doc
BSAF	=	biota-to-sediment accumulation factor (unitless)	chemical-specific	

COMPOUND	BSAF	FishSedPCL (mg/kg)
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aluminum		
antimony		
arsenic		
barium		
beryllium		
boron		
chromium		
cobalt		
copper	1.00E+00	1.95E+02
lead+	6.00E-03	no tox value
lithium		
manganese		
mercury	3.20E+00	1.52E-01
molybdenum		
nickel	5.40E-02	1.80E+03
strontium		
titanium		
vanadium		
zinc	1.10E+00	1.33E+03
gamma-chlordane	1.18E-05	1.57E+04
4,4-DDE	6.40E+00	2.98E-02
4,4-DDT	1.63E-01	1.17E+00
acenaphthene	1.24E-01	1.35E+03
anthracene	1.11E+01	7.54E+01
benzo(a)pyrene	1.03E-02	8.66E-01
benzo(a)anthracene	1.96E-02	4.53E+00
benzo(b)fluoranthene	1.19E-02	7.47E+00
benzo(g,h,i)perylene	3.20E-01	2.61E+02
benzo(k)fluoranthene	1.20E-02	7.43E+01
chrysene	2.03E-02	4.38E+02
dibenzo(a,h)anthracene	7.15E-03	1.24E+00
fluoranthene	3.20E-01	3.48E+02
fluorene	1.56E-01	7.15E+02
hexachlorobenzene	2.40E-01	1.69E-01
indeno(1,2,3-cd)pyrene	3.19E-03	2.79E+01
phenanthrene ^a	6.59E-02	1.27E+03
pyrene	1.75E-01	4.77E+02

=+ no oral SF or RfD

^aused RfD for pyrene as surrogate

-used di-n-octylphthalate as surrogate